

09-17-04

2153

Blw

PTO/SB/21 (04-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	09/876,943
		Filing Date	June 8, 2001
		First Named Inventor	Ken A. Berkun
		Art Unit	2153
		Examiner Name	Glenton B. Burgess
Total Number of Pages in This Submission	35	Attorney Docket Number	283108007US

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	Form PTO/SB/96
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	Copy of Assignment to Thomson Licensing S.A.
<input type="checkbox"/> Certified Copy of Priority Document(s)		Copy of Assignment to America Online, Inc.
<input type="checkbox"/> Response to Missing Parts/Incomplete Application		Postcard
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	PERKINS COIE LLP Steven D. Lawrenz - 37,376
Signature	<i>[Signature]</i>
Date	September 16, 2004

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV522671823US, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

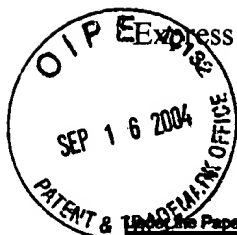
Dated:

9/16/04

Signature:

[Signature]

(Michael J. Smith)



Express Mail No. EV522671823US

PTO/SB/82 (08-03)

Approved for use through 11/30/2005. OMB 0351-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REVOCATION OF POWER OF ATTORNEY and APPOINTMENT OF NEW POWER OF ATTORNEY	Application Number	09/876,943
	Filing Date	June 8, 2001
	First Named Inventor	Ken A. Berkun
	Art Unit	2153
	Examiner Name	Glenton B. Burgess
	Attorney Docket Number	283108007US

I hereby revoke all previous powers of attorney given in the above-identified application:

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint the practitioners at Customer Number: 25096

☒ Please change the correspondence address for the above-identified application to:

☒ The address associated with Customer Number: 25096

OR

<input type="checkbox"/> Firm or Individual Name					
Address					
Address					
City		State		Zip	
Country					
Telephone		Fax			

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/08)

SIGNATURE of Applicant or Assignee of Record

Name	Alexander Franco				
Signature	<i>Alex Franco</i>				
Date	8/9/04		Telephone	(703) 265-3507	

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.*

☒ *Total of one form is submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form, and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Express Mail No. EV522671823US

PTO/SB/96 (08-03)
Approved for use through 7/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicants: Ken A. Berkun et al.
Application No.: 09/876,943 Filed/Issue Date: June 8, 2001
Entitled: INTERPRETIVE STREAM METADATA EXTRACTION
America Online, Inc. a corporation of the State of Delaware
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %
in the patent application/patent identified above by virtue of either:

A. [] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. [X] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Ken A. Berkun et al. To: Thomson Licensing S.A.

The document was recorded in the United State Patent and Trademark Office at Reel 012743, Frame 0793, for which a copy thereof is attached.

2. From: Thomson Licensing S.A. To: America Online, Inc.

A copy of the Patent Assignment, which is being submitted to the Assignment Branch of the United States Patent and Trademark Office for recording concurrently herewith, is attached.

3. From: _____ To: _____

The document was recorded in the United State Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

[] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

8/9/04

Date

(703) 265-3507

Telephone number

Alexander Franco

Typed or printed name

Alex Franco

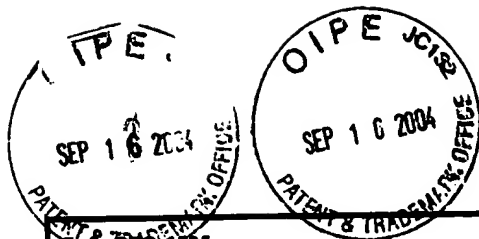
Signature

Patent Counsel

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form, and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1480, Alexandria, VA 22313-1480. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1480.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Form PTO-1595
(Rev. 10/02, modified)
OMB No. 0651-0027 (exp. 6/30/2005)

RECORDATION FORM COVER SHEET
PATENTS ONLY

U.S. Department of Commerce
Patent and Trademark Office

To the Honorable Commissioner for Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Thomson Licensing S.A.

Additional names of conveying parties attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies):

America Online, Inc.
22000 AOL Way
Dulles, VA 20166-9323

3. Nature of conveyance: ☒ Assignment
☐ Merger ☐ Security Agreement
☐ Change of Name ☐ Reassignment
☐ Other

Execution date: November 13, 2003

Additional names of receiving parties attached? ☐ Yes ☒ No

4. Application number(s) and/or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)
09/876,943

B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

5. Name and address of party to whom
correspondence concerning document
should be mailed:

Customer No. 25096
Steven D. Lawrenz
Perkins Coie LLP
P.O. Box 1247
Seattle, Washington 98111-1247
(206) 359-8000

6. Total No. of applications and patents
involved: one (1)

7. Total fee (37 CFR §3.41): \$40.00

☒ Enclosed

☐ Charge Deposit Account No. 50-0665

8. Deposit Account No. 50-0665

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Steven D. Lawrenz

Name of Person Signing

Signature

Date

Total number of pages, including cover sheet, attachments and document: 13

EXECUTION COPY

PATENT ASSIGNMENT

WHEREAS, Thomson Licensing S.A., a French *société anonyme* having a principal place of business at 46, Quai Alphonse Le Gallo, 92100 Boulogne-Billancourt France ("Assignor"), is the owner of the entire right, title and interest in and to the patent applications set forth in attached Schedule A hereto and in and to the inventions disclosed therein (collectively, the "Assigned Patent Rights");

WHEREAS, America Online, Inc., a Delaware corporation, ("Assignee"), Assignor, Thomson Inc., a Delaware corporation, and Singingfish.com, Inc., a Washington corporation, are parties to that certain Asset Purchase Agreement dated November 13, 2003 (the "Asset Purchase Agreement"), and Assignee, Assignor, Thomson, S.A., a French *société anonyme* and the parent company of Assignor, Thomson Inc. and Singingfish.com, Inc. are parties to that certain Transfer Agreement dated November 13, 2003 (the "Transfer Agreement"), pursuant to which Assignee acquired all right, title and interest in and to the Assigned Patent Rights; and

WHEREAS, this Patent Assignment is entered into pursuant to, and as a condition of the closing of the transactions contemplated under, the Asset Purchase Agreement and the Transfer Agreement;

NOW, THEREFORE, for good and valuable consideration acknowledged by Assignor to have been received in full from Assignee and pursuant to the terms of the Asset Purchase Agreement and Transfer Agreement:

1. Assignor hereby conveys, transfers, assigns and delivers unto Assignee all Assignor's right, title and interest in and to said Assigned Patent Rights, together with all patents issuing on said Assigned Patent Rights, and any reissues, reexaminations, renewals, extensions, substitutions, registrations, confirmations, divisionals, continuations, and continuations-in-part of such patents and said Assigned Patent Rights, including any patents and patent applications which claim priority to a common priority document in the priority chain of any of the foregoing, and foreign counterparts of any of the foregoing, and together with all rights to sue for past and future infringement or misappropriation thereof (including the right to sue for pre-issuance royalties).

2. The terms and covenants of this Patent Assignment shall inure to the benefit of Assignee, its successors and assigns, and shall be binding upon Assignor and its successors and assigns.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, Assignor has caused this Patent Assignment to be executed by its duly authorized representatives effective this 13th day of November 2003.

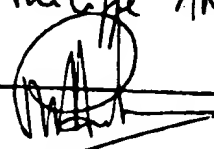
THOMSON LICENSING S.A.

By: 

Name: Didier Huck

Title: Chairman & CEO

ATTEST:

Philippe ANDRAU


SCHEDULE A

"Exhibit One Patent Rights"

Title	Inventor(s)	Country	Application Number	Filing Date
INTERNET STREAMING MEDIA WORKFLOW ARCHITECTURE	DEROSA John, ABAJIAN Aram Christian, ALEXANDER Robin, DAHL Austin, LEE Scott, PORTER Charles, REHM Eric, KOLAR Jennifer, SUDANAGUNTA Srinivasan	US only	09/876941	08 June 01
FULL-TEXT RELEVANCY RANKING	DIAMOND Theodore George, HENDRICK Daniel Allen, REHM Eric Carl, REISLAND Melissa Anne	US only	09/876925	08 June 01
GROUP DUPLICATES AND VARIATIONS	ABAJIAN Aram Christian	US only	09/878877	11 June 01
FUZZY DATABASE RETRIEVAL	PRINCE John	US only	09/878866	11 June 01
INTERNET SEED CRAWLING	JENSEN-GRAY Sean S.	US only	09/878876	11 June 01

"Exhibit One Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
A SYSTEM AND PROCESS FOR NETWORK SITE FRAGMENTED SEARCH	SHANNON Paul, MILLER Brad, LEE Scott, KOLAR Jennifer	PCT	US01/43303	20 Nov 01
		CN	01822162.9	20 Nov 01
		DE	N/A^(*)	N/A
		EP	01988150.7	20 Nov 21
		FR	N/A	N/A
		GB	N/A	N/A
		IN	578/KOL NP/03	20 Nov 01
		IT	N/A	N/A
		JP	545322/02	20 Nov 01
		KR	03-7006820	20 Nov 01
		MX	03/004447	20 Nov 01
		US	10/432,258	20 Nov 01

^(*) Not Available

"Exhibit One Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
A SYSTEM AND PROCESS FOR SEARCHING A NETWORK	PORTER Charles, REICHHOLD Jonathan, REHM Eric	PCT	US01/43247	20 Nov 01
		CN	01822165.3	20 Nov 01
		DE	N/A	N/A
		EP	US01/43247	20 Nov 01
		FR	N/A	N/A
		GB	N/A	N/A
		IN	579/KOL NP/03	20 Nov 01
		IT	N/A	N/A
		JP	545381/02	20 Nov 01
		KR	03-7006786	20 Nov 01
		MX	03/004446	20 Nov 01
		US	10/432,306	20 Nov 01

"Exhibit One Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
A SYSTEM AND PROCESS FOR MEDIATED CRAWLING	EVANS Philip, ALEXANDER Robin, SHANNON Paul	PCT	US01/43248	20 Nov 01
		CN	01822163.7	20 Nov 01
		DE	N/A	N/A
		EP	01988143.2	20 Nov 01
		FR	N/A	N/A
		GB	N/A	N/A
		IN	589/KOL NP/03	20 Nov 01
		IT	N/A	N/A
		JP	545321/02	20 Nov 01
		KR	03-7006783	20 Nov 01
		MX	03/004448	20 Nov 01
		US	10/432,388	20 Nov 01

"Exhibit One Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
METHOD AND ARCHITECTURE FOR THE RULE BASED INDEXING OF MULTIPLE DATA STREAMS	NOWITZ Jonathan	U.S.	10/625,141	23 July 03
ASSERTION-BASED METADATA COLLECTION AND ENHANCEMENT SYSTEM	SUDANAGUNTA Srinivasan	N/A	N/A	N/A

"Exhibit Two Patent Rights"

Title	Inventor(s)	Country	Application Number	Filing Date
INTERPRETIVE STREAM METADATA EXTRACTION	REHM Eric, BERKUN Ken, DAHL Austin, KOLAR Jennifer, LEE Scott, MCRAE Shannon, MILLER Brad, PRINCE John, SUDANAGUNTA Srinivasan, NOWITZ Johnathan	US only	09/876943	08 June 01
METADATA QUALITY IMPROVEMENT	PORTER Charles, ABAJIAN Aram Christian, ALEXANDER Robin Andrew, BERKUN Ken Alan, DAHL Austin David, DEROSA John Anthony, LEE Scott, REHM Eric Carl, SUDANAGUNTA Srinivasan, NOWITZ Johnathan	US only	09/876942	08 June 01

"Exhibit Two Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
A SYSTEM FOR UNIFIED EXTRACTION OF MEDIA OBJECTS	KOLAR Jennifer, MILLER Brad, LEE Scott	PCT	US01/43305	20 Nov 01
		CN	01822164.5	20 Nov 01
		DE	N/A	N/A
		EP	01987023.7	20 Nov 01
		FR	N/A	N/A
		GB	N/A	N/A
		IN	577/KOL NP/03	20 Nov 01
		IT	N/A	N/A
		JP	545323/02	20 Nov 01
		KR	03-7006821	20 Nov 01
		MX	03/004445	20 Nov 01
		US	10/432,316	20 Nov 01

"Exhibit Three Patent Rights"

Title	Inventor(s)	Country	Application Number	Filing Date
METHOD OF SIZING AN EMBEDDED MEDIA PLAYER PAGE	HAYWARD Monte Duane	PCT	US01/51373	24 Oct 01
		BR	PI0114879-6	24 Oct 01
		CN	01817867.7	24 Oct 01
		DE	N/A	N/A
		EP	01989347.8	24 Oct 01
		FR	N/A	N/A
		GB	N/A	N/A
		IN	438/KOL NP/03	24 Oct 01
		IT	N/A	N/A
		JP	549056/02	24 Oct 01
		KR	03-7005382	24 Oct 01
		MX	03/003495	24 Oct 01
		US	10/415210	24 Oct 01

"Exhibit Three, Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
METHOD OF COLLECTING DATA USING AN EMBEDDED MEDIA PLAYER PAGE	HAYWARD Monte Duane	PCT	US01/51228	24 Oct 01
		BR	PI0114882-6	24 Oct 01
		CN	01817868.5	24 Oct 01
		DE	N/A	N/A
		EP	01994526.0	24 Oct 01
		FR	N/A	N/A
		GB	N/A	N/A
		IN	436/KOL NP/03	24 Oct 01
		IT	N/A	N/A
		JP	558150/02	24 Oct 01
		KR	03-7005632	24 Oct 01
		MX	03/003493	24 Oct 01
		US	10/415216	24 Oct 01

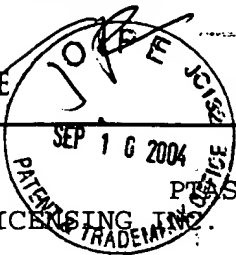
"Exhibit Three, Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
METHOD OF DISSEMINATING ADVERTISEMENTS USING AN EMBEDDED MEDIA PLAYER PAGE	HAYWARD Monte Duane	PCT	US01/51227	24 Oct 01
		BR	PI0114830-3	24 Oct 01
		CN	01817871.5	24 Oct 01
		DE	N/A	N/A
		EP	01989326.2	24 Oct 01
		FR	N/A	N/A
		GB	N/A	N/A
		IN	437/KOL NP/03	24 Oct 01
		IT	N/A	N/A
		JP	557111/02	24 Oct 01
		KR	03-7005633	24 Oct 01
		MX	03/003494	24 Oct 01
		US	10/415021	24 Oct 01



UNITED STATES
PATENT AND
TRADEMARK OFFICE

Express Mail No. EV522671823US



PU01003

MAY 30, 2002

THOMSON MULTIMEDIA LICENSING INC.
JOSEPH S. TRIPOLI
PATENT OPERATIONS
P.O. BOX 5312
PRINCETON, NEW JERSEY 08543-5312

Commissioner for Trademarks
Arlington, VA 22202-3513
www.uspto.gov



102045388A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/11/2002

REEL/FRAME: 012743/0793
NUMBER OF PAGES: 17

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BERKUN, KEN ALAN

DOC DATE: 09/07/2001

ASSIGNOR:

DAHL, AUSTIN DAVID

DOC DATE: 09/07/2001

ASSIGNOR:

KOLAR, JENNIFER LYNN

DOC DATE: 09/10/2001

ASSIGNOR:

LEE, SCOTT CHAO-CHUEH

DOC DATE: 10/29/2001

ASSIGNOR:

MCRAE, SHANNON E.

DOC DATE: 10/05/2001

ASSIGNOR:

MILLER, BRAD STEVEN

DOC DATE: 09/10/2001

ASSIGNOR:

PRINCE, JOHN

DOC DATE: 10/22/2001

Event	Assign Record
Deadline	
Entered	12/05/06/07

ASSIGNOR:

REHM, ERIC CARL

DOC DATE: 09/21/2001

ASSIGNOR:

SUDANAGAGUNTA, SRINIVASAN

DOC DATE: 09/06/2001

ASSIGNOR:

NOWITZ, JONATHAN ROBERT

DOC DATE: 09/21/2001

ASSIGNEE:

THOMSON LICENSING S.A.
46 QUAI ALPHONSE LE GALLO
F-92100 BOULOGNE BILLANCOURT,
FRANCE

SERIAL NUMBER: 09876943

FILING DATE: 06/08/2001

PATENT NUMBER:

ISSUE DATE:

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

04-05-2002



102045388

PU010083

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

3. 11. 02

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Ken Alan Berkun, Austin David Dahl,
Jennifer Lynn Kolar, Scott Chao-Chueh Lee,
Shannon E. McRae, Brad Steven Miller,
John Prince, Eric Carl Rehm,
Srinivasan Sudanagunta and
Jonathan Robert Nowitz

Additional name(s) of
conveying party(ies)
attached:

X No

2. Name and address of receiving party(ies):

Name: Thomson Licensing S.A.

Street Address: 46 quai Alphonse Le Gallo
F-92100 Boulogne Billancourt France

City: Boulogne Billancourt State: France

Additional name(s) & address(es) attached?

OFFICE OF PATENT RECORDS

202 MAR 11 PM 2:12

FINANCE SECTION

X No

3. Nature of conveyance:

X Assignment

Security Agreement

Other

Merger

Change of Name

Execution Date: Sept. 7, 2001 - Sept. 7, 2001 - Sept. 10, 2001 -
Oct. 29, 2001 - Oct. 5, 2001 - Sept. 10, 2001 - Oct. 22, 2001 -
Sept. 21, 2001 - Sept. 6, 2001 and Sept. 21, 2001 respectively.

4. Application number(s) or patent number(s): Serial No. 09/876,943

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) U.S. 09/876,943

B. Patent No.(s) ----

Additional numbers attached?

X No

5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: JOSEPH S. TRIPOLI

Internal Address: PATENT OPERATIONS
THOMSON multimedia Licensing Inc.

Street Address: PO Box 5312

City: PRINCETON State: NEW JERSEY Zip :08543-5312

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41): \$40.00

Enclosed

X Authorized to be charged to deposit account

8. Deposit account number:

07-0832

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true
copy of the original document.

Joel M. Fogelson

Name of Person Signing

Signature - Reg. No. 43,613

Total number of pages including cover sheet: 17

Feb. 27, 2002

Date

OMB No. 0651-0011 (exp. 4/94)

DO NOT DETACH THIS PORTION

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded,
including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover
sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information
Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project
(0651-0011), Washington, D.C. 20503.

04/04/2002 6TOM11 00000208 070832 09876943

01 FC:581 40.00 CH

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors
(if plural inventors are named below) of the inventions relating to INTERPRETIVE STREAM METADATA EXTRACTION

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No.
09/876,943
or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.


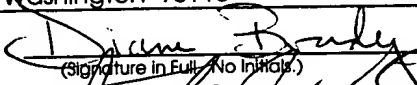
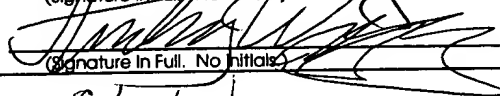
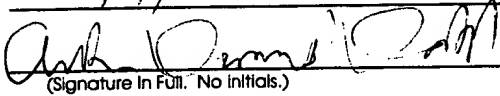
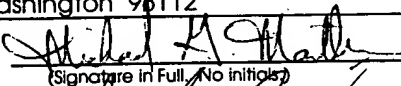
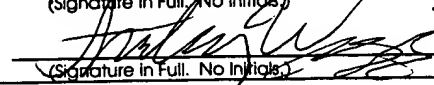
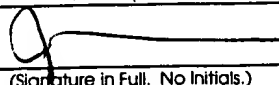
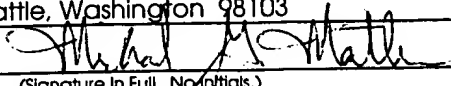
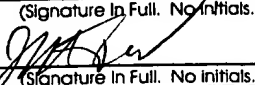
I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	<u>9-07-01</u>
Inventor (1)	<u>KEN ALAN BERKUN</u> (Type or Print)	 (Signature in Full. No Initials.)	
Post Office Address	<u>1554 NE 95th Street, Seattle, Washington 98115</u>		
1st Witness	<u>Diane Brady</u> (Type or Print)	 (Signature in Full. No Initials.)	
2nd Witness	<u>Anthony Wiegery</u> (Type or Print)	 (Signature in Full. No Initials.)	
Signed at	<u>Seattle, Washington</u>	Date	<u>9/7/01</u>
Inventor (2)	<u>AUSTIN DAVID DAHL</u> (Type or Print)	 (Signature in Full. No Initials.)	
Post Office Address	<u>2039 26th Ave. E., Seattle, Washington 98112</u>		
1st Witness	<u>Michael G. Mathen</u> (Type or Print)	 (Signature in Full. No Initials.)	
2nd Witness	<u>Anthony Wiegery</u> (Type or Print)	 (Signature in Full. No Initials.)	
Signed at	<u>Seattle, Washington</u>	Date	<u>9/10/2001</u>
Inventor (3)	<u>JENNIFER LYNN KOLAR</u> (Type or Print)	 (Signature in Full. No Initials.)	
Post Office Address	<u>3626 Fremont Lane N #201, Seattle, Washington 98103</u>		
1st Witness	<u>Michael G. Mathen</u> (Type or Print)	 (Signature in Full. No Initials.)	
2nd Witness	<u>Jeff Essler</u> (Type or Print)	 (Signature in Full. No Initials.)	

After this Assignment has been recorded please RETURN to:
BEST AVAILABLE COPY

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors
(if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,943

or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at <u>Seattle, Washington</u>	Date <u>10/24/2001</u>	
Inventor (4) <u>SCOTT CHAO-CHUEH LEE</u> (Type or Print)	<u>Scott Chao-Chueh Lee</u> (Signature in Full. No initials.)	
Post Office Address <u>2031 151 Ave. SE, Bellevue, Washington 98007</u>		
1st Witness <u>Peter Lee</u> (Type or Print)	<u>Peter Lee</u> (Signature in Full. No initials.)	
2nd Witness <u>Hsich Hung Lee</u> (Type or Print)	<u>Hsich Hung Lee</u> (Signature in Full. No initials.)	
Signed at <u>Seattle, Washington</u>		
Inventor (5) <u>SHANNON E. MCRAE</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address <u>1422 E. Union, #106, Seattle, Washington 98122</u>		
1st Witness _____ (Type or Print)	_____ (Signature in Full. No initials.)	
2nd Witness _____ (Type or Print)	_____ (Signature in Full. No initials.)	
Signed at <u>Seattle, Washington</u>		
Inventor (6) <u>BRAD STEVEN MILLER</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address <u>9302 SE 43rd Street, Mercer Island, Washington 98040</u>		
1st Witness _____ (Type or Print)	_____ (Signature in Full. No initials.)	
2nd Witness _____ (Type or Print)	_____ (Signature in Full. No initials.)	

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors
(if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,942

or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at <u>Seattle, Washington</u>	Date _____	
Inventor (4) <u>SCOTT CHAO-CHUEH LEE</u> (Type or Print)	(Signature in Full. No initials.) _____	
Post Office Address <u>2031 151 Ave. SE, Bellevue, Washington 98007</u>		
1st Witness _____ (Type or Print)	(Signature in Full. No initials.) _____	
2nd Witness _____ (Type or Print)	(Signature in Full. No initials.) _____	
Signed at <u>Seattle, Washington</u>	Date <u>10-11-2001</u>	
Inventor (5) <u>SHANNON E. MCRAE</u> (Type or Print)	(Signature in Full. No initials.) <u>[Signature]</u>	
Post Office Address <u>1422 E. Union, #106, Seattle, Washington 98122</u>		
1st Witness _____ (Type or Print)	(Signature in Full. No initials.) _____	
2nd Witness _____ (Type or Print)	(Signature in Full. No initials.) _____	
Signed at <u>Seattle, Washington</u>	Date _____	
Inventor (6) <u>BRAD STEVEN MILLER</u> (Type or Print)	(Signature in Full. No initials.) _____	
Post Office Address <u>9302 SE 43rd Street, Mercer Island, Washington 98040</u>		
1st Witness _____ (Type or Print)	(Signature in Full. No initials.) _____	
2nd Witness _____ (Type or Print)	(Signature in Full. No initials.) _____	

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of
(if plural inventors are named below) of the inventions relating to

10 joint inventors

Interpretive Stream Metadata Extraction

described in an application for Letters Patent of the United States of America filed on

June 8, 2001

Under Serial No.

09/876,942

or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	
Inventor (4)	<u>SCOTT CHAO-CHUEH LEE</u>		
	(Type or Print)	(Signature in Full. No initials.)	
Post Office Address	<u>2031 151 Ave. SE, Bellevue, Washington 98007</u>		
1st Witness			
	(Type or Print)	(Signature in Full. No initials.)	
2nd Witness			
	(Type or Print)	(Signature in Full. No initials.)	

Signed at	<u>Seattle, Washington</u>	Date	
Inventor (5)	<u>SHANNON E. MCRAE</u>		
	(Type or Print)	(Signature in Full. No initials.)	
Post Office Address	<u>1422 E. Union, #106, Seattle, Washington 98122</u>		
1st Witness			
	(Type or Print)	(Signature in Full. No initials.)	
2nd Witness			
	(Type or Print)	(Signature in Full. No initials.)	

Signed at	<u>Seattle, Washington</u>	Date	<u>9-10-2001</u>
Inventor (6)	<u>BRAD STEVEN MILLER</u>		
	(Type or Print)	(Signature in Full. No initials.)	
Post Office Address	<u>9302 SE 43rd Street, Mercer Island, Washington 98040</u>		
1st Witness	<u>Michael G. Martin</u>	<u>Michael G. Martin</u>	
	(Type or Print)	(Signature in Full. No initials.)	
2nd Witness	<u>Anthony Wiegman</u>	<u>Anthony Wiegman</u>	
	(Type or Print)	(Signature in Full. No initials.)	

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors
(if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,942

or, if not identified here by filing date and serial number, executed by me on even date with my execution of this Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

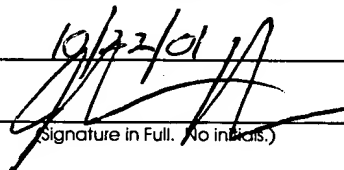

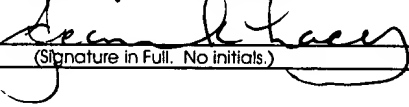
I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at <u>Seattle, Washington</u>	Date <u>10/22/01</u>
Inventor (7) <u>JOHN PRINCE</u> (Type or Print)	 (Signature in Full. No initials.)
Post Office Address <u>P.O. Box 5028, Bellevue, Washington 98009</u>	
1st Witness <u>Philip C. Evans</u> (Type or Print)	 (Signature in Full. No initials.)
2nd Witness <u>Jeannine K. Lacy</u> (Type or Print)	 (Signature in Full. No initials.)
Signed at <u>Seattle, Washington</u>	Date _____
Inventor (8) <u>ERIC CARL REHM</u> (Type or Print)	_____ (Signature in Full. No initials.)
Post Office Address <u>353 Wallace Way NE #3, Bainbridge Island, Washington 98110</u>	
1st Witness _____ (Type or Print)	_____ (Signature in Full. No initials.)
2nd Witness _____ (Type or Print)	_____ (Signature in Full. No initials.)
Signed at <u>Seattle, Washington</u>	Date _____
Inventor (9) <u>SRINIVASAN SUDANAGUNTA</u> (Type or Print)	_____ (Signature in Full. No initials.)
Post Office Address <u>913 26TH Avenue E., Seattle, Washington 98112</u>	
1st Witness _____ (Type or Print)	_____ (Signature in Full. No initials.)
2nd Witness _____ (Type or Print)	_____ (Signature in Full. No initials.)

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (If only one inventor is named below) or one of 10 joint inventors (If plural inventors are named below) of the inventions relating to Interpretive Stream Metadata Extraction

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,942

or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	
Inventor (7)	<u>JOHN PRINCE</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>P.O. Box 5028, Bellevue, Washington 98009</u>		
1st Witness	<u></u> (Type or Print)		(Signature in Full. No initials.)
2nd Witness	<u></u> (Type or Print)		(Signature in Full. No initials.)
Signed at	<u>Seattle, WA</u>	Date	<u>21-Sept-2001</u>
Inventor (8)	<u>ERIC CARL REHM</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>353 Wallace Way NE #3, Bainbridge Island, Washington 98110</u>		
1st Witness	<u>Jeff Fuler</u> (Type or Print)		(Signature in Full. No initials.)
2nd Witness	<u>Tim Faguan</u> (Type or Print)		(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	<u>Sept 6, 2001</u>
Inventor (9)	<u>SRINIVASAN SUDANAGUNTA</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>913 26TH Avenue E., Seattle, Washington 98112</u>		
1st Witness	<u>Diane Brady</u> (Type or Print)		(Signature in Full. No initials.)
2nd Witness	<u>Melissa A. Dickland</u> (Type or Print)		(Signature in Full. No initials.)

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of
(if plural inventors are named below) of the inventions relating to

10 Joint inventors

Interpretive Stream Metadata Extraction

described in an application for Letters Patent of the United States of America filed on

June 8, 2001

Under Serial No.

09/876,942

or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	<u>9/21/01</u>
Inventor (10)	<u>JONATHAN ROBERT NOWITZ</u> (Type or Print)	<u>[Signature]</u> (Signature in Full. No initials.)	
Post Office Address	<u>2302 NE 92nd Street, Seattle, Washington 98115</u>		
1st Witness	<u>Jeff Fessler</u> (Type or Print)	<u>[Signature]</u> (Signature in Full. No initials.)	
2nd Witness	<u>Tim Fagan</u> (Type or Print)	<u>[Signature]</u> (Signature in Full. No initials.)	
Signed at	_____	Date	_____
Inventor (1)	_____ (Type or Print)	_____ (Signature in Full. No initials.)	
Post Office Address	_____		
1st Witness	_____ (Type or Print)	_____ (Signature in Full. No initials.)	
2nd Witness	_____ (Type or Print)	_____ (Signature in Full. No initials.)	

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors
(if plural inventors are named below) of the inventions relating to INTERPRETIVE STREAM METADATA EXTRACTION

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,943
or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	
Inventor (1)	<u>KEN ALAN BERKUN</u> (Type or Print)	(Signature in Full. No initials.)	
Post Office Address	<u>1554 NE 95th Street, Seattle, Washington 98115</u>		
1st Witness		(Signature in Full. No initials.)	
2nd Witness		(Signature in Full. No initials.)	
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (2)	<u>AUSTIN DAVID DAHL</u> (Type or Print)	(Signature in Full. No initials.)	
Post Office Address	<u>2039 26th Ave. E., Seattle, Washington 98112</u>		
1st Witness		(Signature in Full. No initials.)	
2nd Witness		(Signature in Full. No initials.)	
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (3)	<u>JENNIFER LYNN KOLAR</u> (Type or Print)	(Signature in Full. No initials.)	
Post Office Address	<u>3626 Fremont Lane N #201, Seattle, Washington 98103</u>		
1st Witness		(Signature in Full. No initials.)	
2nd Witness		(Signature in Full. No initials.)	

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors
(if plural inventors are named below) of the inventions relating to INTERPRETIVE STREAM METADATA EXTRACTION

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,943

or, if not identified here by filing date and serial number, executed by me on even date with my execution of this Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	
Inventor (1)	<u>KEN ALAN BERKUN</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>1554 NE 95th Street, Seattle, Washington 98115</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (2)	<u>AUSTIN DAVID DAHL</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>2039 26th Ave. E., Seattle, Washington 98112</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (3)	<u>JENNIFER LYNN KOLAR</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>3626 Fremont Lane N #201, Seattle, Washington 98103</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors
(if plural inventors are named below) of the inventions relating to INTERPRETIVE STREAM METADATA EXTRACTION

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,943
or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	
Inventor (1)	<u>KEN ALAN BERKUN</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>1554 NE 95th Street, Seattle, Washington 98115</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (2)	<u>AUSTIN DAVID DAHL</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>2039 26th Ave. E., Seattle, Washington 98112</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (3)	<u>JENNIFER LYNN KOLAR</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>3626 Fremont Lane N #201, Seattle, Washington 98103</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors
(if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,943

or, if not identified here by filing date and serial number, executed by me on even date with my execution of this
Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	
Inventor (7)	<u>JOHN PRINCE</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>P.O. Box 5028, Bellevue, Washington 98009</u>		
1st Witness			(Signature in Full. No initials.)
	(Type or Print)		
2nd Witness			(Signature in Full. No initials.)
	(Type or Print)		
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (8)	<u>ERIC CARL REHM</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>353 Wallace Way NE #3, Bainbridge Island, Washington 98110</u>		
1st Witness			(Signature in Full. No initials.)
	(Type or Print)		
2nd Witness			(Signature in Full. No initials.)
	(Type or Print)		
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (9)	<u>SRINIVASAN SUDANAGUNTA</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>913 26TH Avenue E., Seattle, Washington 98112</u>		
1st Witness			(Signature in Full. No initials.)
	(Type or Print)		
2nd Witness			(Signature in Full. No initials.)
	(Type or Print)		

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors
(if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,943
or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	_____
Inventor (10)	<u>JONATHAN ROBERT NOWITZ</u> (Type or Print)	(Signature in Full. No initials.)	_____
Post Office Address	<u>2302 NE 92nd Street, Seattle, Washington 98115</u>		
1st Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
2nd Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
Signed at	_____	Date	_____
Inventor (11)	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
Post Office Address	_____		
1st Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
2nd Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
Signed at	_____	Date	_____
Inventor (12)	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
Post Office Address	_____		
1st Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
2nd Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors (if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,942

or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	
Inventor (4)	<u>SCOTT CHAO-CHUEH LEE</u> (Type or Print)	(Signature in Full. No initials.)	
Post Office Address	<u>2031 151 Ave. SE, Bellevue, Washington 98007</u>		
1st Witness	(Type or Print)	(Signature in Full. No initials.)	
2nd Witness	(Type or Print)	(Signature in Full. No initials.)	
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (5)	<u>SHANNON E. MCRAE</u> (Type or Print)	(Signature in Full. No initials.)	
Post Office Address	<u>1422 E. Union, #106, Seattle, Washington 98122</u>		
1st Witness	(Type or Print)	(Signature in Full. No initials.)	
2nd Witness	(Type or Print)	(Signature in Full. No initials.)	
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (6)	<u>BRAD STEVEN MILLER</u> (Type or Print)	(Signature in Full. No initials.)	
Post Office Address	<u>9302 SE 43rd Street, Mercer Island, Washington 98040</u>		
1st Witness	(Type or Print)	(Signature in Full. No initials.)	
2nd Witness	(Type or Print)	(Signature in Full. No initials.)	

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors
(if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,942
or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	
Inventor (7)	<u>JOHN PRINCE</u>	(Signature in Full. No Initials.)	
	(Type or Print)		
Post Office Address	<u>P.O. Box 5028, Bellevue, Washington 98009</u>		
1st Witness		(Signature in Full. No Initials.)	
	(Type or Print)		
2nd Witness		(Signature in Full. No Initials.)	
	(Type or Print)		
Signed at		Date	
Inventor (8)	<u>ERIC CARL REHM</u>	(Signature in Full. No Initials.)	
	(Type or Print)		
Post Office Address	<u>353 Wallace Way NE #3, Bainbridge Island, Washington 98110</u>		
1st Witness		(Signature in Full. No Initials.)	
	(Type or Print)		
2nd Witness		(Signature in Full. No Initials.)	
	(Type or Print)		
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (9)	<u>SRINIVASAN SUDANAGUNTA</u>	(Signature in Full. No Initials.)	
	(Type or Print)		
Post Office Address	<u>913 26TH Avenue E., Seattle, Washington 98112</u>		
1st Witness		(Signature in Full. No Initials.)	
	(Type or Print)		
2nd Witness		(Signature in Full. No Initials.)	
	(Type or Print)		

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors
(if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,942

or, if not identified here by filing date and serial number, executed by me on even date with my execution of this Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	
Inventor (10)	<u>JONATHAN ROBERT NOWITZ</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>2302 NE 92nd Street, Seattle, Washington 98115</u>		
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at		Date	
Inventor (11)			(Signature in Full. No initials.)
Post Office Address			
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at		Date	
Inventor (12)			(Signature in Full. No initials.)
Post Office Address			
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 10 joint inventors
(if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,942
or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Seattle, Washington</u>	Date	
Inventor (10)	<u>JONATHAN ROBERT NOWITZ</u>	(Type or Print)	(Signature in Full. No initials.)
Post Office Address	<u>2302 NE 92nd Street, Seattle, Washington 98115</u>		
1st Witness		(Type or Print)	(Signature in Full. No initials.)
2nd Witness		(Type or Print)	(Signature in Full. No initials.)
Signed at		Date	
Inventor (11)		(Type or Print)	(Signature in Full. No initials.)
Post Office Address			
1st Witness		(Type or Print)	(Signature in Full. No initials.)
2nd Witness		(Type or Print)	(Signature in Full. No initials.)
Signed at		Date	
Inventor (12)		(Type or Print)	(Signature in Full. No initials.)
Post Office Address			
1st Witness		(Type or Print)	(Signature in Full. No initials.)
2nd Witness		(Type or Print)	(Signature in Full. No initials.)

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON multimedia
Licensing Inc.
P.O. Box 5312
Princeton, NJ 08543-5312